

February 8, 2017

RE: Streamlining Deployment of 5G Technology & Small Cell Infrastructure

I am strongly in opposition to the expediting of the 5G wireless infrastructure proposed by the FCC. Section 704 of the Telecommunications Act of 1996 – made by the wireless industry when they knew their products posed threats to human and environmental health – already prevents the opposition of cell towers or other wireless facilities by local governments on the basis of human health or environment. Clearly, the wireless industry knows this technology is cause for concern and is harmful; as they have for over three decades. 16-421 would make it drastically easier for wireless facilities to be installed. While the wireless telecom industry continues to ignore the adverse impacts of the already expansive existing wireless infrastructure on the general public, especially children and the disabled, millions worldwide are suffering because of such technology being forced upon them with virtually no recourse. 5G will be literally jumping out of the frying pan and into the fire; security, privacy, health, energy, and environment are all major causes for concern about 5G, yet the FCC does not seem concerned or interested in addressing these issues. Currently, the IoT is being deployed faster than we can keep up with it and maintain and secure it; smart-meters are notoriously insecure, and customer data can be easily breached by hackers and third-parties. Big data is becoming an increasingly privacy-violating nuisance in everyone's lives. Deploying this infrastructure on private property or in public rights of way is simply inhumane and despicable; whatever happened to the Product Emissions Act of 1968, which required the government to protect the public against harmful electronic emissions? We are exposed today to 100 million to 10 billion times more radiation than our grandparents, and none of this radiation has ever been deemed “safe” by any reputable independently funded study. People are being made ill in their homes already by smart-meters, and 5G will just exacerbate their symptoms. Headaches, tinnitus, bloody noises, heart palpitations, and insomnia have made living at home unbearable for many; not only are their Fourth Amendment Rights being violated, but they can no longer feel safe at home; neither can they pursue their right to happiness.

The research is clear and robust and growing when it comes to the health and environmental threats posed by the RF radiation emitted by wireless devices and appliances. Our genetic makeup is already being destroyed, and studies have found RF radiation can cause infertility in mice. Our pollinators, the bees, are suffering colony collapse disorder as a result of the huge explosion in wireless proliferation. Quite literally, electromog is the biggest public threat humanity has EVER faced! Furthermore, these higher frequencies remain largely unstudied; the FCC maintains their outdated standards and denies any harm from these frequencies, even though no study has shown they are safe.

Furthermore, global climate change is already a severe problem. **3G technologies use about 15 times more energy than wired connections, and 4G technologies consume 23 times more energy.** There is no data yet on 5G. If the bulk of our Information Communications Technology (ICT) infrastructure and transmissions were wired, such as Fiber to the Home (FTTH), the energy footprint from our “digital world” could be significantly reduced. But because the IoE will greatly grow our dependence on wireless technologies, and because **wireless consumes far more energy than their wired counterparts**, we are now facing an unprecedented and exponential growth in energy consumption. Don't look to the energy efficiency of IoT devices to help with energy consumption as it is more than offset by increased usage.

In conclusion, it should be obvious that the FCC request to streamline the siting procedures to rapidly roll out 5G is a “full speed ahead, deal with the consequences later” strategy. Little or no thought has been given to cyber defense, there is no regard for personal privacy, health impacts are totally denied, and sustainability of the ever growing energy demand of IoT is never addressed. Ultimately this strategy is designed to benefit the wireless industry at the expense of the public.

I ask you this question: what is important to the FCC – human and environmental health, or corporate profits and technology?